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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/649,499 08/28/2000 William F Jones 26242.00 8209 7590 07/01/2003 Pitts and Brittian PC **EXAMINER** PO Box 51295 LU, TOM Y Knoxville, TN 37950-1295 ART UNIT PAPER NUMBER

2621

DATE MAILED: 07/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. JONES, WILLIAM F	e			
Examiner Ton Y Lu 2621 -The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Educesors of iron reply be available under the provisions of 3° CFR 1.58(e). In one went, however, may a reply be limited filled. If NO period for reply specified above, the manimum shallows period will apply and will expire SX (6) MONTH for this her mailing state of this communication. Falless by reply which the sex communication is the reply and will expire SX (6) MONTH for this her mailing state of this communication. Falless by reply which the sex communication is the reply and will expire SX (6) MONTH for this her mailing state of this communication. Falless by reply which the sex device less than the reply and will expire SX (6) MONTH for this her mailing state of this communication. Falless by reply within the sex device less than the mailing date of this communication, several function from the mailing date of this communication, several function from the mailing date of this communication, several function from the mailing date of this communication is reply feet, may reduce any several function from the mailing date of this communication is reply feet, may reduce any several function from the mailing date of this communication is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)□ Claim(s) 1:10 is/are pending in the application. 4a)□ Claim(s) 1:10 is/are allowed. 5)□ Claim(s) 1:10 is/are allowed. 6)□ Claim(s) 1:10 is/are allowed. 6)□ Claim(s) 1:10 is/are rejected. 7)□ Claim(s) 2:2 and 5:10 is/are rejected. 7)□ Claim(s) 3:2 and 5:10 is/are rejected. 7)□ Claim(s) 1:10 is/are allowed. 8)□ Claim(s) 1:10 is/are allowed. 10 □ The specification is object		Application No.	Applicant(s)	
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Horbaschek et al (U.S. Patent No. 4,937,848).

As applied to Claim 1, which is representative of Claim 4, Horbaschek discloses a first digital pipeline latch for receiving said data collected by said positron emission tomograph device (Horbaschek at column 3, lines 35-36, discloses position data is outputted from X-ray tube 1, and transmitted through a line 31 to a computer 11. The lines connected between numeral 13 and multipliers 14-17 inside computer 11 as shown in figure 1, are the claimed "digital pipeline latch". X-ray tube 1 corresponds to the claimed "positron emission tomograph device"); a plurality of multipliers disposed in parallel, each of said plurality of multipliers for receiving and multiplying a portion of said data to generate a product simultaneous with each other of said plurality of multipliers (Multipliers 14-17 as shown in figure 1 receive data from first pipeline latch); a second digital pipeline latch for simultaneously receiving said product from each of said plurality of multipliers (the lines connected between multipliers and adders are the claimed "second digital pipeline latch"); a plurality of adders disposed in parallel, each of said plurality of adders for receiving and summing a plurality of said product from said plurality of multipliers (adders 20 and 21 sum up the outputs from multipliers 14-17); and a third digital pipeline latch

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for receiving data from said plurality of adders (lines between numeral 22-23 and the adders are

the claimed "third digital pipeline latch"), said data being representative of a pair of transformed

coordinate points from a primary coordinate system to a secondary coordinate system (data

output from adders are Ah and Av. Ah and Av are in rectangular coordinate as described at

column 4, lines 25-26, which is the claimed "secondary coordinate system". The input data is in

polar coordinate as described at column 4, line 30, which is the claimed "primary coordinate

system"); whereby as said data is input to said first digital pipeline latch, said product of said

data from an immediately previous said event is input to said second digital pipeline latch and

completely transformed data from a second immediately previous said data is input to said third

digital pipeline latch, and whereby said event data is transformed from said primary coordinate

system to said secondary coordinate system in real time (all process steps above are done within

computer 11, therefore, the transformation from the primary coordinate system to the secondary

coordinate system is done in real time).

Allowable Subject Matter

2. Claims 2-3 and 5-10 would be allowable if rewritten to overcome the rejection(s) under

35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the

limitations of the base claim and any intervening claims.

Reason for allowance:

a. Claims 2 and 5 define equations used to produce transformed coordinates from

the primary coordinate system to the secondary coordinate system are clearly not

taught or suggested by the art of record.

b. Claim 3 is dependent upon Claim 2.

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c. Claims 6-10 are dependent upon Claim 5.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. Gullberg et al, U.S. Patent No. 5,565,684, see column 7, lines 42-62.

b. Thiel et al, U.S. Patent No. 4,887,211, see figures 3-8.

c. Walters, U.S. Patent No. 4,583,241, see figure 6.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom Y Lu whose telephone number is (703) 306-4057. The examiner can normally be reached on 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo H Boudreau can be reached on (703) 305-4706. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Tom Y. Lu June 20, 2003

LEO BOUDREAU

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